M. A. R. 57 (Rule 116) No. E 536201

Measurement Book

Serial No. 2nd and final Bill

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Executive Engineer, ICRP2, Bangalore-3

Date of commencement of work..... D-o- Recording - 21-12-2020

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work :	Improvements to Roads and drains at Construction of Manjunathaya colony and other area in Ward No.06 Byatarayanpura Sub-Division.					
	Estimated cost Rs.	100.00 Lakhs					
	JOB. NO	: 006-20-000164					
	Work order NO	: BBMP/EE/BTP/WO/190/2019-20					Dt. 16.01.2020.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
①	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m^3 in volume and stacking at designated location and disposal of dismantled materials stacking serviceable and unserviceable materials separately ME Complete as per specifications and directions of Engineer-in-charge of work..						
		qty vide R. Bill. If no ①					
		p.no 1	= 379.4 m^3			952.94 m^3	361545.43

M. A. R. 57 (Rule 116) No. E
Measurement Book 536202

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(2)	Removing and Refixing stone slabs of drains and paving in CM (1:3) ex Complete as per specifications and directions of Engineer-in-charge of the work.						
		qty vide R. Bill-11			If no ②	p. 1	
		= 301.44	m^2 @		92.22	m^3 Rs	27798.80
3)	Removing and resetting of kerb stones all complete as per specifications and directions of Engineer-in-charge of the work						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Qty vide E-Bill. No. (5)				
			p.no 1 @ 70 Rmtr. @ 104.9 sft/Rmtr.				7345.80
4)	Providing granite slabs of selected quality Roughly dressed and fixed in cm 1:6 including fixing curing etc. complete as per specifications and directions of Engineer-in-charge of the work.						
			Qty vide E-Bill. No (5)				
			p.no 1 = 102.06 sft				75728.52
						E 7432/42	

M. A. R. 57 (Rule 116) No. E
Measurement Book

536203

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(5)	Earth work Excavation by manual means in ordinary dust, having an average horizontal throw upto 2 m and any Lift upto 0.50 m, Excavated surface levelled and sides neatly dressed, the disposed of clods Excavated as per specifications and directions of Engineer in-charge of the work.						
			Qty. vide E-Bill. No (5) p.no 2				
			= 1143.00 ft³ @ 137.5 ft³/yd			Rs	157505.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Providing and laying plain cc 1:2:4 lyrs with crushed metal coarse aggregate of 0.44 m³ in fnd? and compacted by vibrators including curing for 14 days inclu dly costg all materials, labour, hire charg of machines, dismantling and centering etc complete as per specifications and directions of Engineer in charge of the works.	cement concrete of mix 1:3:6 with down and down size graded granite coarse aggregate of 0.89 m³ and fine aggregate 0.44 m³ in fnd? mechanically mixed, placed in fnd? including curing for 14 days inclu dly costg all materials, labour, hire charg of machines, complete as per specifications and directions of Engineer in charge of the works.					
		qty vide E. Bill. No. ⑥ p. no. ⑦ = 398.83 m³ @ 5424.90/m³					2162525.00

M. A. R. 57 (Rule 116) No. E
Measurement Book 536204

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(7)	Providing and constructing granite (trap) boundary stone masonry in basement with cm 1:4, edges of stones chisel dressed in courses not less than 15 cms high, bound stones at 2 m apart in each course including curing etc complete as per specifications of directions of Engineer-in-charge of the work.	With cm 1:4, edges of stones chisel dressed in courses not less than 15 cms high, bound stones at 2 m apart in each course including curing etc complete as per specifications of directions of Engineer-in-charge of the work.					
		qty vide E. Bill. No. ⑦ p. no 2					
		= 42.30 m³ @ 5305.20/m³					2,24,414.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
e)	Providing and constructing load bearing wall with hollow concrete blocks having block density not less than 8 kg/qm having a uniform minimum average compressive strength of 4.0 N/mm² conforming to IS 2185 part-1 : 2005 and constructed with CM 1:4 as per IS-2572:2005, including costing all materials, labour charges, scaffolding, curing, hire charges of machineries etc complete as per specifications & directions of Engineer-in-charge of the work.						
		qty as dy					
		p.no ③				= 100.80 m²	Rs 98727.55
						@ 979.14/m²	

M. A. R. 57 (Rule 116) No. E 536205
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(9)	plain/Reinforced C.C. 1:4:8 with OPC cement @ 320 kg/m³ with 20mm and down size graded granite metal Coarse aggregate @ 0.69 m³ and fine aggregate @ 0.46 m³ with super plasticizer @ 3 lits conforming to IS-103-1993 Re-affirmed-2004, in open foundation complete as per drawing and technical specification Column Curve-A-With batching plant, transit mixed and concrete etc complete as per specifications and directions of Engineer-in-charge the work.						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8	
			Qty work done			E.Bill No. (9)	
			P.No 3			39.11 m³ @ 5148.42/m³	201355.00
10)	Providing flush pointing to coursed stone masonry with CM 1:3, 20 mm deep, after raking joints to depth of 20mm in cement lining, including costing, materials, labour curing etc complete as per specifications and directions of Engineer-in-charge of the work.						
			Qty work done			E.Bill No. (10)	
			P.No. 3			111.69 m² @ 223.66/m²	24980.00

M. A. R. 57 (Rule 116) No. E 536206
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
11)	Providing and laying plain/reinforced C.C for made drain using M. 20 nominal mix Controle with ope at 300 b/s. With 20mm and down size granite metal coarse aggregate at 0.63 m³ sand and fine aggregate at 0.43 m³ machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, hire of machinery, charges complete excluding cost of steel m						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	as per worn specifications no 1500, 1700, 2200 including costing material, labour, tools etc complete as per specifications and directions of Engineer-in-charge of work.						
		qty vide E.Bill No. (11)					
		p.no. 4	= 124.46	mt	@ 7070.20/mt	Rs	879957.00
12)	Providing TMT-Steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever	do					

M. A. R. 57 (Rule 116) No. E 536207
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	necessary complete as per design, costing material, labour, tools complete as per specifications.						
		qty vide E.Bill. No. 12					
		p.no 4	= 8.71	mmm	@ 72326.98/cum	629968.00	
						R.	
13)	Providing and placing precast do	dated	Cement concrete kerb				
	stones moulding	C.C.M 2:4	with	top	and	sitting	works

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	114 and 165 mm Respectively, 400mm high and 45mm in length finished with Cm1:3, plaster and finishing; cutting, including form work, curing, including costing all material, labour, hire charges of machinery, loading, unloading loaded and transportation etc complete as per specification.						
			qty as per E.Bill at no (13)				
			p.no 4	= 356.	nos @	432-48/m² Rs	153963.no
147	Providing and fixing RCC precast cover slab 100mm thick,						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 536208

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	for drain in Cm1:1:5:3 using graded granite gaty 20mm and down size with steel reinforcement, including fixing wood with charges, curing, and controls finished surfaces on both sides all complete and as per drawing and my directions of Engineer in charge						
			qty as per E.Bill at no (14)				
			p.no (E)	= 340.70 m²	@ 2337/m² Rs		79626.no

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15)	Providing and laying RCC precast concrete slab of 25 mm thick made out of C.C 1:2:4 and well rounded dust size with steel reinforcement, including formwork Labour Charges, curing and concrete finished surfaces on both sides of slab etc complete as per drawing and the directions of Engineer-in-Charge.						
			Qty as per Bill. Item no (15)				
			P.no (5), 49 no same				
						5478/m2	268191.00
16)	Cement concrete pavement, consisting of unreinforcement						

M. A. R. 57 (Rule 116) No. E

Measurement Book

536209

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	plain cement concrete pavement, thickness as per design, over a prepared sub-base with 43 grade cement or any other type as per Clause 1051.2.2, M20/M25 at 385/450 kgs per m³, Coarse aggregate and fine aggregate confirming to IS. 383, max size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.4 m³ capacity and appropriate with batches as per approved mix						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	design, laid in approved sized side formwork (steel channel), spreading to contract with shovels, trackers compacted using needle, screed and plate vibrator all finished in a continuous operation etc complete as per specifications and directions of Engineer-in-charge's work						
			qty vide E-Bill-II No. (16)				
			p.no (6). 366.90 sqm @ 5210.96/sqm				1911901.22
17)	vacuum de-watering with vacuum pump and suction						

M. A. R. 57 (Rule 116) No. E 536210
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	mat and compacting with skin float clubbed with floating disc including costly generator, heavy machinery & erect vibratory power floater/blade and disc etc complete as per specifications and directions of Engineer-in-charge's work.						
			qty vide E-Bill II No. (17)				
			p.no (6) = 2446.00 sqm @ 72.08/sqm				176307.68
18)	Earthwork excavation for foundations of buildings, water						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Supply, dismantling lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m min depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation within lead and lift etc complete as per specifications and directions of Engineer in-charge of work.						
		qty vide		F.Bill. No			
		P.No (6)		313.20 m³ @ Rs 475.94/m³			(149064.4)

M. A. R. 57 (Rule 116)
Measurement Book

No. E 536211

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
197	Providing and installing at site of work 63mm pvc pipe 6 kg/cm² including cutting pipes of specials and labour, including lowering into trenches, laying true to line, level and perfect jointing at joints, leak proofs including jointing with approved type etc complete as per specifications.						
		qty vide		F.Bill	No. (19)		
		P.No (7)	=	580 Rmtr @	208.82/Rmtr. Rs		121116.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
20)	Refilling available Earth around pipe lines, Cables, in layers not exceeding 30cms in depth, Compacting Each deposited layer by ramming after watering with leak upto 5kms and lift upto 1.5kms, including coolie all labour etc Complete as per specifications and directions of Engineer-in-charge work.						
		qty vide E.Bill No 20 p.no 23					
		313.20 cum	@	128.26/cum	Rs		40171.03
21)	Loading, unloading of stone boulders by manual						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 536212

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements etc complete as per specifications and directions of Engineer-in-charge work.						
		qty vide E.Bill No 20 p.no 17					
		1822.40 cum	@	73.59/cum	Rs		1,12,642.00
						Sub Total	8,58,403.00
						Add GST @ 12%	10,29,768.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Add ICREDL Charges @3%.	2,57,442.00	
					Add 1% Labour cess	85,814.00	
					G.Total Rs	99,54,427.00	
	Certificate ① certified that the Contractor has work done satisfactorily ② the contractor has removed the debris from site ③ there is no any depth materials issued to Contractor						

M. A. R. 57 (Rule 116) No. E 536213

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		51.nos					
		CROSS ROAD					
		59.1.5	128.mts	59.mts	61.mts		